

Section 3

Peristaltic Metering Pumps

Section 3 Peristaltic Metering Pumps

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EMEC VELON Series

Peristaltic Metering Pumps

Standard Features:

- Wall Mounting
- Scheduled Maintenance via Activity Meters
- Flow Rate Options: 0.018-1.8 or 0.12-12 lph
- Pressure: 2 bar (at 29 psi)
- RPM Range: 1-100%
- Remote Control via Web or MyEMEC App
- Level of Protection IP65
- 5 Year Warranty*

VELON

emec
SIMPLE AS WATER

NIMBUS

WiFi



With the stepper technology, it is possible to vary the rotation speed and therefore modulate dosing in real time within a range from 1% to 100%, making it ideal for environments where a wide dosage range from 18 cc/h to 12 l/h at 2 bar is required.

Models:

Model	Function
VELON CL	Constant dosing pump with manual adjustment via potentiometer. With LED, ON/OFF button, Level Input.
VELON MF	Multifunction pump with digital management, backlit RGB LCD display, encoder programming. Operating Modes: Constant, CC/Pulse, PPM, % MLQ, Batch, Volt, mA, Pulse, Weekly Program, Ext pause. Remote management via app/web.
VELON PO	Versatile pump with direct probe input, pH or ORP, with proportional speed control. Backlit LCD display, encoder programming, remote management via app/web. Proportional, Auto dosing.
VELON PM	Pump with MODBUS RTU integration, ideal for automated systems. MODBUS RTU, LED, ON/OFF button. External Control.

Specific Features:

	VELON CL	VELON MF	VELON PO	VELON PM
Inputs	Level	MODBUS RTU, Multi-function, Level	MODBUS RTU, Standby, Level, pH/ORP Probe	MODBUS RTU, Level
Outputs	Alarm (optional)	Alarm (optional)	Alarm (optional)	Alarm (optional)
Connectivity		Wi-Fi & Bluetooth	Wi-Fi & Bluetooth	
Firmware Update		OTA	OTA	

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Peristaltic Metering Pumps

EMEC WN Series

Dual Peristaltic Pumps with Built-In Controllers for Swimming Pools

Standard Features:

- Suitable for Pools up to 250m³
- Measurement and Control of Two Parameters
- Built in WiFi for Remote Management
- Dual Peristaltic Pumps with Adjustable Speed 0.5 to 12 lph at 2 Bar
- New Long-Life Peristaltic Hose
- Large Colour RGB LCD Screen
- 2 Additional Powered Relay Outputs
- New Easy Set-up Auto Dosing Mode
- Remote Control via Wifi
- 5 Year Warranty*



Models:

Model	Function
WNPHRH	Swimming pool controller for pH(0-14) and redox (0-999mV), with 2 x metering pumps for acid and disinfectant. LCD backlit display, alarm output, maximum dosing time alarm, probe check function, pH priority dosing.
WNPHRHS	Swimming pool controller for pH(0-14) and redox (0-999mV), with 1 x metering pumps for acid and output for salt chlorinator. LCD backlit display, alarm output, maximum dosing time alarm, probe check function, pH priority dosing.
WNPHCL	Swimming pool controller for pH(0-14) and chlorine or bromine (0-10PPM), with 2 x metering pumps for acid and disinfectant. LCD backlit display, alarm output, maximum dosing time alarm, probe check function.
WNPHCLS	Swimming pool controller for pH(0-14) and chlorine or bromine (0-10PPM), with one metering pump for acid and output for salt chlorinator. LCD backlit display, alarm output, maximum dosing time alarm, probe check function.

Options:

Probes sold separately.

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EMEC V Series

Peristaltic Metering Pumps

Standard Features:

- Low Cost Valve-less Metering Pumps
- 12 Month Warranty*



VPESR

VPER002

Each pump is supplied with a foot-valve, injection valve and 4m of PVC suction or discharge tubing.

Models:

Model	Pressure Bar	Flow l/h	Maximum Operating Time minutes	Maximum Duty Cycle	Tube Size ID x OD
VPESR0002	0.5	2	30	50%	4 x 6 PVC
VPESR00.8	0.5	0.8	30	50%	4 x 6 PVC
VPER20002	0.5	0.154 - 2.0	30	50%	4 x 6 PVC

Peristaltic pumps use rotating rollers to compress a flexible tube, creating positive displacement. This produces an effective valve-less pump which is self priming. This pump is a low cost option, but it is limited to applications where operation is intermittent, and where there is minimal back pressure.

Model VPESR features constant output with no control. Model VPER20002 has a built in timer, on time and off time are independently adjustable from 5 to 60 seconds.

Applications include cooling towers, rinse baths, fountains and swimming pools.

Please call and discuss your application, so we can determine if a peristaltic pump is the right solution for you.

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Peristaltic Metering Pumps

EMEC F Series

Peristaltic Metering Pumps

Standard Features:

- Low Cost Valve-less Metering Pumps
- 12 Month Warranty*



FPESR

FPER002

Each pump is supplied with a foot-valve, injection valve and 4m of PVC suction or discharge tubing.

Models:

Model	Pressure Bar	Flow l/h	Maximum Operating Time minutes	Maximum Duty Cycle	Tube Size ID x OD
FPESR0002	0.5	2	30	50%	4 x 6 PVC
FPESR00.8	0.5	0.8	30	50%	4 x 6 PVC
FPER20002	0.5	0.154 - 2.0	30	50%	4 x 6 PVC

Peristaltic pumps use rotating rollers to compress a flexible tube, creating positive displacement. This produces an effective valve-less pump which is self priming. This pump is a low cost option, but it is limited to applications where operation is intermittent, and where there is minimal back pressure.

Model FPESR features constant output with no control. Model FPER20002 has a built in timer, on time and off time are independently adjustable from 5 to 60 seconds.

Applications include cooling towers, rinse baths, fountains and swimming pools.

Please call and discuss your application, so we can determine if a peristaltic pump is the right solution for you.

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Helios AS FX

Peristaltic Pumps

Standard Features:

- Fixed Speed Pump
- 230/400V 3-Phase Motor
- Pump Casing in Aluminium Alloy, rollers in PVC
- Self Priming
- Run Dry Capable
- Viscosity up to 15,000cPs
- 304SS Hose Tails as Standard



Models:

Model	Flow l/h	Suction Lift max	Pressure Meters of Head	RPM	Tube Size ID	Motor Power kW
AS10FX	23	4	15	23	9	0.18
	35	4	15	35		0.18
	47	4	15	47		0.18
	70	4	15	70		0.18
	93	4	15	93		0.18
AS15FX	56	4	15	23	13	0.18
	86	4	15	35		0.18
	115	4	15	47		0.18
	172	4	15	70		0.18
	228	4	15	93		0.18
AS20FX	149	5	15 to 40 *	23	17	0.18
	227	5	15 to 40 *	35		0.18
	305	5	15 to 30 *	47		0.18
	453	5	15 to 30 *	70		0.18
	602	5	10 to 20 *	93		0.18
AS25FX	538	6	20 to 40 *	28	25	0.37
	672	6	20 to 40 *	35		0.37
	902	6	20 to 30 *	47		0.37
	1344	6	20 to 30 *	70		0.75
	1785	6	15 to 25 *	93		0.75

* Depending on tube material.

Options:

Tubes available in NR, NBR, Norprene, Silicone, EPDM, Pharmed, Tygon, Hypalon.
Special couplings: Hose connector in 316SS, PVC, PTFE, Tri-clamps, flanges.

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Peristaltic Metering Pumps

Helios AS VX

Peristaltic Pumps

Standard Features:

- Variable Speed Pump
- Adjustable Reduction Gearbox
- 230/400V 3-Phase Motor
- Pump Casing in Aluminium alloy, rollers in PVC
- Self Priming
- Run Dry Capable
- Viscosity up to 15,000cPs
- 304SS Hose Tails as Standard



Models:

Model	Flow l/h	Suction Lift max	Pressure Meters of Head	RPM	Tube Size ID	Motor Power kW
AS10VX	3.2 to 15	4	15	3.2 to 15	9	0.22
	4.7 to 22.5	4	15	4.7 to 22.5		0.22
	6.3 to 30	4	15	6.3 to 30		0.22
	9.5 to 45	4	15	9.5 to 45		0.22
	19 to 90	4	15	19 to 90		0.22
AS15VX	7.8 to 37	4	15	3.2 to 15	13	0.22
	11.6 to 55	4	15	4.7 to 22.5		0.22
	15.5 to 73.8	4	15	6.3 to 30		0.22
	23.4 to 110	4	15	9.5 to 45		0.22
	47 to 221	4	15	19 to 90		0.22
AS20VX	21 to 97	5	15 to 40 *	3.2 to 15	17	0.22
	30 to 146	5	15 to 40 *	4.7 to 22.5		0.22
	41 to 194	5	15 to 40 *	6.3 to 30		0.22
	62 to 291	5	15 to 40 *	9.5 to 45		0.22
	82 to 388	5	15 to 40 *	12.7 to 60		0.22
AS25VX	73 to 365	6	20 to 40 *	3.8 to 19	25	0.37
	90 to 455	6	20 to 40 *	4.7 to 23.7		0.37
	121 to 608	6	20 to 35 *	6.3 to 31.7		0.37
	182 to 912	6	15 to 30 *	9.5 to 47.5		0.37
	243 to 1280	6	15 to 25 *	12.7 to 66.7		0.75

* Depending on tube material.

Options:

Tubes available in NR, NBR, Norprene, Silicone, EPDM, Pharmed, Tygon, Hypalon.
Special couplings: Hose connector in 316SS, PVC, PTFE, Tri-clamps, flanges.

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Helios AS IX

Peristaltic Pumps

Standard Features:

- Variable Speed Pump
- 4-20mA Input Control
- 230/400V three Phase Motor
- Pump casing in Aluminium alloy, Rollers in PVC
- Self Priming
- Run Dry Capable
- Viscosity up to 15,000cPs
- 304SS hose tails as standard



Models:

Model	Flow l/h	Suction Lift max	Pressure Meters of Head	RPM	Tube Size ID	Motor Power kW
AS10IX	1.5 to 47	4	15	1.5 to 47	9	0.18
	3 to 93	4	15	3 to 93		0.18
	6 to 185	4	10	6 to 185		0.18
AS15IX	3.5 to 115	4	15	1.5 to 47	13	0.18
	7 to 172	4	15	2.8 to 70		0.18
	15 to 345	4	15	6 to 140		0.18
AS20IX	10 to 304	5	15 to 40 *	1.5 to 47	17	0.18
	18 to 453	5	15 to 40 *	2.8 to 70		0.18
	20 to 602	5	15 to 30 *	6 to 140		0.18
AS25IX	29 to 902	6	20 to 40 *	1.5 to 47	25	0.37
	54 to 1344	6	20 to 40 *	2.8 to 70		0.55
	58 to 1785	6	15 to 25 *	3 to 93		0.75

* Depending on tube material.

Options:

Tubes available in NR, NBR, Norprene, Silicone, EPDM, Pharmed, Tygon, Hypalon.
Special couplings: Hose connector in 316SS, PVC, PTFE, Tri-clamps, flanges.

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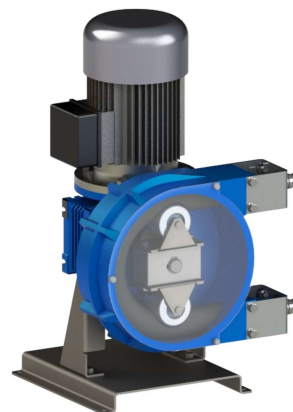
Peristaltic Metering Pumps

Helios ASP FX

Peristaltic Pumps

Standard Features:

- Fixed Speed Pump
- Up to 25,000 lph
- Self Priming
- Run Dry Capable
- 8m Suction Lift
- Up to 10 Bar Discharge Pressure



Models:

Model	Flow l/h	Suction Lift max	Pressure Meters of Head	RPM	Tube Size ID	Motor Power kW
ASP10FX	47	8	100	23	10	0.18
	72	8	80	35		0.18
	96	8	80	47		0.37
	143	8	80	70		0.37
ASP15FX	102	8	100	23	15	0.18
	155	8	80	35		0.18
	209	8	80	47		0.37
	310	8	80	70		0.37
ASP25/15FX	275	8	80	35	15	0.55
	354	8	80	45		0.75
	440	8	70	56		0.75
	550	8	60	70		0.75
ASP25FX	672	8	80	35	25	0.55
	864	8	80	45		0.75
	1075	8	70	56		0.75
	1344	8	60	70		0.75
ASP32FX	1596	8	100	38	32	1.1
	1974	8	80	47		1.1
	2436	8	60	58		1.1
	2940	8	40	70		1.1
ASP40FX	2040	8	100	25	40	1.5
	2038	8	80	36		1.5
	3672	8	60	45		1.5
	5712	8	40	70		1.5
ASP50FX	4185	8	100	25	50	2.2
	6026	8	60	36		2.2
	7533	8	60	45		3
	11718	8	40	70		3
ASP65FX	8580	8	80	22	65	4
	13650	8	60	35		5.5
	15500	8	60	45		7.5
	21840	8	50	56		7.5

Options:

Tubes available in NR, NBR, Norprene, Silicone, EPDM, Pharmed, Tygon, Hypalon.
Special couplings: Hose connector in 316SS, PVC, PTFE, Tri-clamps, flanges.

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Helios ASP VX

Peristaltic Pumps

Standard Features:

- Variable Speed Pump with Reduction Gearbox
- Up to 20,000 lph
- Self Priming
- Run Dry Capable
- 8m Suction Lift
- Up to 10 Bar Discharge Pressure



Models:

Model	Flow l/h	Suction Lift max	Pressure Meters of Head	RPM	Tube Size ID	Motor Power kW
ASP10VX	6,5 to 30,6	8	100 / 80	3,2 to 15	10	0.22
	9,6 to 46	8	100 / 70	4,7 to 22,5		0.22
	5,5 to 77,5	8	100 / 60	7,6 to 38		0.37
	26 to 129	8	100 / 50	12,7 to 63,3		0.37
ASP15VX	14,2 to 66,6	8	100 / 80	3,2 to 15	15	0.22
	21 to 100	8	100 / 70	4,7 to 22,5		0.22
	34 to 168,7	8	100 / 60	7,6 to 38		0.37
	56,4 to 281	8	100 / 50	12,7 to 63,3		0.37
ASP25/15VX	37 to 196,5	8	100 / 60	4,7 to 25	15	0.55
	60 to 314,4	8	100 / 70	7,6 to 40		0.75
	94,3 to 487,3	8	100 / 50	12 to 62		0.75
	118 to 629	8	100 / 40	15 to 80		0.75
ASP25VX	90 to 480	8	100 / 60	4,7 to 25	25	0.55
	146 to 768	8	100 / 60	7,6 to 40		0.75
	230 to 1190	8	100 / 50	12 to 62		0.75
	288 to 1536	8	100 / 40	15 to 80		0.75
ASP32VX	210 to 1134	8	100 / 60	5 to 27	32	1.1
	319 to 1680	8	100 / 60	7,6 to 40		1.1
	504 to 2604	8	100 / 50	12 to 62		1.1
	630 to 3360	8	100 / 40	15 to 80		1.1
ASP40VX	342 to 1811	8	100 / 60	4,2 to 22,2	40	1.5
	489 to 2611	8	100 / 60	6 to 32		1.5
	775 to 4080	8	100 / 50	9,5 to 50		2.2
	979 to 5059	8	100 / 40	12 to 62		2.2
ASP50VX	703 to 3716	8	100 / 60	4,2 to 22,2	50	2.2
	1004 to 5356	8	100 / 60	6 to 32		2.2
	1590 to 8370	8	100 / 50	9,5 to 50		3
	2008 to 10378	8	100 / 40	12 to 62		3
ASP65VX	1638 to 8658	8	100 / 60	4,2 to 22,2	65	4
	2340 to 12480	8	100 / 60	6 to 32		5.5
	2964 to 15600	8	100 / 50	7,6 to 40		7.5
	3705 to 19500	8	100 / 40	9,5 to 50		7.5

Options:

Tubes available in NR, NBR, Norprene, Silicone, EPDM, Pharmed, Tygon, Hypalon.
Special couplings: Hose connector in 316SS, PVC, PTFE, Tri-clamps, flanges.

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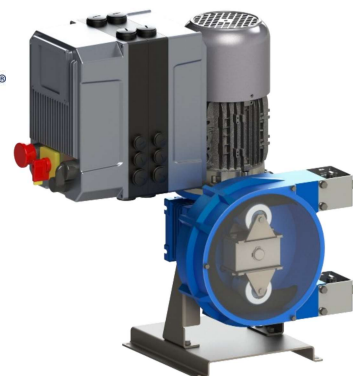
Helios ASP IX

Peristaltic Pumps

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Standard Features:

- Variable Speed Pump
- Up to 25,000 lph
- Self Priming
- Run Dry Capable
- 8m Suction Lift
- Up to 10 Bar Discharge Pressure



Models:

Model	Flow l/h	Suction Lift max	Pressure Meters of Head	RPM	Tube Size ID	Motor Power kW
ASP10IX	9 to 65 19 to 130 28.5 to 200	8 8 8	100 / 80 100 / 60 100 / 50	4.5 to 32 9.3 to 65 14 to 98	10	0.25 0.37 0.37
ASP15IX	20 to 142 41.3 to 289 62 to 435	8 8 8	100 / 80 100 / 60 100 / 50	4.5 to 32 9.3 to 65 14 to 98	15	0.25 0.37 0.37
ASP25/15IX	55 to 385 71 to 495 110 to 870	8 8 8	100 / 80 100 / 60 100 / 50	7 to 49 9 to 63 14 to 98	15	0.75 0.75 0.75
ASP25IX	134 to 940 173 to 1210 268 to 1880	8 8 8	100 / 80 100 / 60 100 / 50	7 to 49 9 to 63 14 to 98	25	0.75 0.75 0.75
ASP32IX	294 to 2058 390 to 2730 588 to 4116	8 8 8	100 / 80 100 / 50 100 / 40	7 to 49 9.3 to 65 14 to 98	32	1.5 1.5 1.5
ASP40IX	408 to 2856 734 to 5140 938 to 6528	8 8 8	100 / 80 100 / 50 100 / 40	5 to 35 9 to 63 11.5 to 80	40	1.5 2.2 2.2
ASP50IX	837 to 5860 1507 to 10546 1925 to 13395	8 8 8	100 / 80 100 / 50 100 / 40	5 to 35 9 to 63 11.5 to 80	50	2.2 3 4
ASP65IX	1720 to 12090 2730 to 19110 3510 to 24570	8 8 8	100 / 80 100 / 50 100 / 40	4.4 to 31 7 to 49 9 to 63	65	7.5 7.5 7.5

Options:

Tubes available in NR, NBR, Norprene, Silicone, EPDM, Pharmed, Tygon, Hypalon.
Special couplings: Hose connector in 316SS, PVC, PTFE, Tri-clamps, flanges.

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Helios ATR

Peristaltic Pumps



ATR 80 FX / TD



Double Head



Pump Head



ATR 80 / 280 TC
Belt Transmission

Models:

Model	Flow l/h	Suction Lift max	Pressure Meters of Head	RPM	Tube Size ID	Motor Power kW
ATR80FX-TD	12160	8	50 (80)	22.3	80	5.5 (7.5)
	18874	8	30 (50)	34.6		5.5 (9)
	21915	8	25 (45)	40.1		5.5 (9)
	26422	8	20 (40)	48.4		7.5 (11)
ATR280FX-TD	24321	8	50 (80)	22.2	80	75 (11)
	33748	8	30 (50)	34.6		11 (15)
	43830	8	25 (45)	40.1		11 (15)
	52845	8	20 (40)	48.4		11 (15)
ATR80IX-TD	2432 to 14592	8	50 (80)	4.5 to 26.7	80	5.5 (7.5)
	3775 to 22649	8	30 (50)	6.9 to 41.5		5.5 (9)
	4383 to 26298	8	25 (45)	8.0 to 48.2		7.5 (11)
	5284 to 31707	8	20 (40)	9.7 to 58.1		7.5 (11)
ATR280IX-TD	4864 to 29185	8	50 (80)	4.5 to 26.7	80	11 (15)
	7550 to 45298	8	30 (50)	6.9 to 41.5		11 (15)
	8766 to 52596	8	25 (45)	8.0 to 48.2		11 (15)
	10569 to 63414	8	20 (40)	9.7 to 58.1		11 (15)

Special Version: ATR 80 & ATR 280 TC—Belt Transmission. More information on request.

Options:

Tubes available in NR, NBR, Norprene, Silicone, EPDM, Pharmed, Tygon, Hypalon.
Special couplings: Hose connector in 316SS, PVC, PTFE, Tri-clamps, flanges.

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